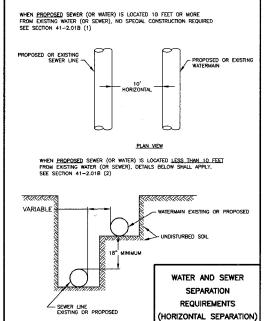
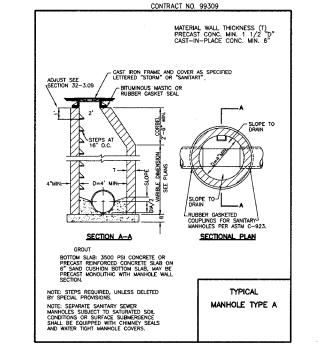


PROPOSED WATERMAIN BELOW EXISTING SEWER LINE WITH 18" MINIMUM VERTICAL SEPARATION. NOTE: COMPACTION REQUIREMENTS REFER TO 20–2.0B EXISTING SEWER LINE OR CASING SE GUIDELINES #2 OR CASING SE GUIDELINES #4 NOTE: "S" THE LENGTH NECESSARY TO PROVODE 10 FEET OF SEPARATION AND MEASURED PERPENDICULAR TO EXISTING SEWER LINE. GUIDELINES 1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATERMAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L". 2. IF SELECT GRANULAR EMBEDMENT EMBEL WITHIN WIDTH OF EXISTING SEWER LINE TERNOL WITHIN WIDTH OF EXISTING SEWER LINE TERNOL WITHIN WIDTH OF EXISTING SEWER LINE TERNOL AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 3. PROVIDE AMERICAL CLASS IV) AND COMPACT THE LENGTH OF "L". 3. PROVIDE AMERICAL CLASS IV) AND COMPACT THE LENGTH OF "L". 3. PROVIDE AMERICAL CLASS IV) AND COMPACT THE LENGTH OF "L". 3. PROVIDE AMERICAL CLASS IV) AND COMPACT. 3. PROVIDE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. 4. USE "L" FEET OF WATERMAIN MATERIAL FOR CASING OF PROPESED WATERMAIN AND SEAL ENDS OF CASING. WATER AND SEWER SEPARATION REQUIREMENTS (VERTICAL SEPARATION)





ROUTE NO. SECTION

ILLINOIS

F.A.U. 9641

COUNTY

WILLIAMSON 53 50

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- ALL MANHOLES SHALL BE FOUR FOOT DIAMETER PRECAST CONCRETE WITH PAVED INVERTS AND BE EQUAL TO THOSE MANUFACTURED BY EGYPTIAN CONCRETE CO. OPENINGS AN ALL M.H.'S SHALL BE FOUR WAY.
- 2. MANHOLE CASTINGS SHALL BE NEENAH R-1772 WITH GASKETED TY."C" LID.
- 3. PVC SOLID-WALL SEWER PIPE FOR SEWER MAIN AND LATERALS SHALL BE MADE OF COMPOUNDS CONFORMING TO ASTM D1784 IN ACCORDANCE WITH THE MATERIAL REQUIREMENTS OF ASTM D3034. PVC SEWER PIPE MIST MEET ALL DIMENSIONAL, CHEMICAL AND PHYSICAL REQUIREMENTS AS OUTLINED IN ASTM D3034 AND ASTM F678. PVC SEWER PIPE SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS OF ASTM D3221.
- ALL PIPE JOINTS SHALL BE OF THE BELL AND SPIGOT TYPE AND CONFORM TO REQUIREMENTS OF ASTM D3212. GASKET MATERIAL TO CONFORM TO ASTM F477.
- SEWER LATERALS TO BE 4" DIA. SDR 26, MEETING ASTM D-3034 SPEC. W/AS F-477 JOINT, UNLESS LATERALS CROSS ABOVE WATER LINES THEN ASTM D224 SHALL BE USED.
- ALL MATERIAL AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," 5TH EDITION.
- IN ALL CONSTRUCTION, A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN WATER AND SEWER MAINS AND LATERALS IN ACCORDANCE WITH SECT. 41–2.01b AND 41–2.01c.
- ALL FLEXIBLE GRAVITY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM 02321-89, ALL BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE PLACED AT LEAST 6 INDEED OVER THE TOP OF THE PIPE USING CLASS II MATERIAL, CLASSIFIED IN ACCORDANCE WITH ASTM 02321-89, SECTION 9 AND TABLE 1.
- ALL TESTING TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS." 5th EDITION.
- THE CONTRACTOR SHALL BE PERMITTED TO USE INFILTRATION, EXFILTRATION, AIR TESTING IN ACCORDANCE WITH ARTICLE 31-1.11A OF THE STANDARD SPECIFICATIONS.
- DEFLECTION TESTING SHALL BE INACCORDANCE WITH ARTICLE 31-1.11B(4) OF THE STANDARD SPECIFICATIONS.
- ALL MANHOLES SHALL BE TESTED FOR WATERTIGHTNESS IN ACCORDANCE WITH ASTM C969-94 OR ASTM C1244-93.

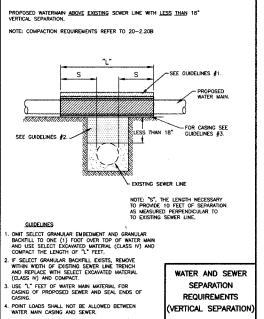
WATER NOTES

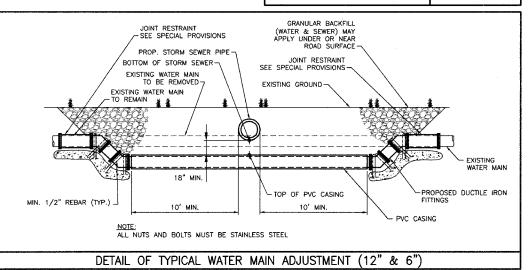
- ALL PVC PIPE SHALL BE SOR 26, AND BEAR THE SEAL OF APPROVAL AND CONFORM TO ASTM D-2241. ALL JOINTS SHALL MEET THE REQUIREMENTS OF ASTM F477 AND ASTM D-3139.
- ALL DUCTILE IRON PIPE SHALL BE 250 P.S.I., CONFORMING TO ANSI/AWWA C151/A21.51. DUCTILE IRON FITTINGS SHALL COMPLY WITI ANSI/AWWA C110/A21.20.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL COMPLY WIT THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," 5TH EDITION.
- DEPTH OF COVER SHALL BE A MINIMUM OF 36" UNLESS OTHERWISE NOTED.
- UNDERGROUND LOCATION WIRE TO BE INSTALLED IN THE SAME TRENCH AS WATER LINE.
- FIELDS, AND SEEPAGE BEDS A MINIMUM OF 25 FEET.
- ALL PIPE FITTINGS SHALL BE DUCTILE IRON AND SHALL USE STAINLESS STEEL NUTS AND BOLTS. WHERE A CHANGE IN DIRECTION OF THE PIPE OCCUPS, RESTRAINT DEVICES EQUAL TO EBAN IRON'S MEGA LUGS SHALL BE INSTALLED. THE RESTRAINT DEVICE SHALL BE THAT RECOMMENDED FOR THE PROPER PVC CLASSIFICATION OF PIPE.

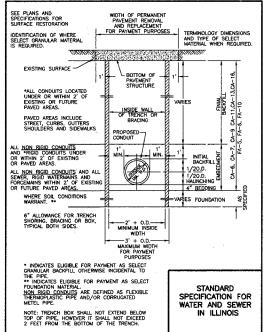
- 9, WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWER MAINS A MINIMUM OF 10' HORIZONTAL AND 18' VERTICAL AND SHALL BE INSTALLED AS DETAILED IN STANDARD DRAWINGS 18-24 IN THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," 5TH EDITION. LOCATIONS AND ELEVATIONS OF SEWER LATERALS IS NOT PRESENTLY KNOWN. CONTRACTOR SHALL CHANCE LOCATION, ELEVATION, AND/OR CASE WATER MAIN PER THE STANDARD DRAWINGS WHEN LATERALS ARE ENCOUNTERED.
- INTERCONNECTIONS SHALL CONSIST OF MAKING A PRESSURE TAP ON THE EXISTING WATER MAIN WITH A TAPPING SLEEVE AND A TAPPING VALVE. TAPPING SLEEVE AND ALL BOLTS AND NUTS SHALL BE STANLESS STEEL.
- GATE VALVES SHALL HAVE A NON-RISING STEM AND A 2 INCH SQUARE WRENCH NUT. VALVE BOXES SHALL BE TWO OR THREE PIECE AND HEIGHT ADJUSTABLE.
- 12. FIRE HYDRANTS SHALL BE 3-WAY MUELLER "SUPER CENTURION" MODEL # A-423 OR APPROVED EQUAL WITH AUXILIARY VALVE AND A MINIMUM OF 3.5 FEET BURY, ALL FIRE HYDRANT LEADS SHALL BE A MINIMUM OF 6" IN DIAMETER FOR WATER MAINS 6" IN DIAMETER OR GREATER.
- ALL NUTS AND BOLTS FOR GATE VALVES & FIRE HYDRANTS SHALL BE STAINLESS STEEL.

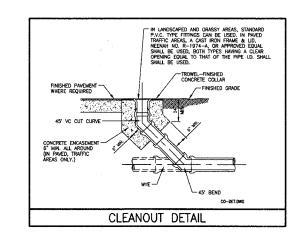
GENERAL NOTES

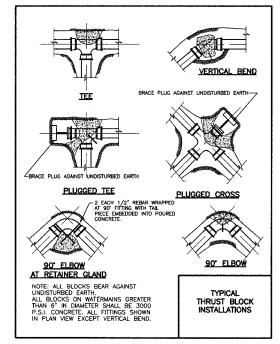
- UNDERGROUND STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND, THEREFORE, THEIR LOCATION MUST BE CONSIGERED APPROXIMATE ONLY. THE VERHEACHING OF THE LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES AND UTILIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- . WATER AND SEWER CROSSINGS UNDER STREET AREAS AND DRIVEWAYS SHALL BE BACKFILLED WITH CA-6 GRANULAR MATERIAL AND COMPACTED TO 95% DENSITY.
- CONTRACTOR SHALL CONTACT JULLE. OPERATOR AT 1-800-892-0123 FOR MARKING OF EXISTING UNDERGROUND UTILITIES. JULLIE. SHOULD BE CONTACTED A MINIMUM OF 96 HOURS IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR CROSSING OF ANY EXISTING UTILITIES.

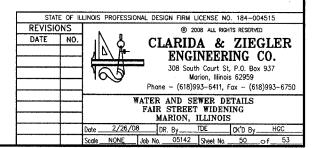












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